

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, M.D.

Some peculiarities in the development of mountain river valleys. Geog.
sbor. 1:42-50 '52. (MLRA 6:?)
(Valleys)

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CIA-RDP86-00513R000514510001-4

Gavrilov, M. I., Sannikov, M. I., Kasimtsev, G. M. (Et al.) - "Results of the preliminary study of the contemporary condition of mongrel sheep breeding in north Caucasus and the Lower Volga," Sbornik nauch. rabot (Vsesoyuz. nauch.-issled. in-t ovtsevodstva i kozovodstva), Issue 17, 1948, p. 3-35. - Bibliog: 8 items
SO: U-4355, 14 August 53, (Letopis 'Zhurnal 'nykh Statey, No. 15, 1949)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

MIRAK'YAN, M.G., student fiz.-mat.fakul'tata; GAVRILOV, M.I.
[Havrylov, M.I.], nauchnyy rukovoditel', doktor fiz.-mat.
nauk, prof.

Improving the congruence of one method for the approximate
solution of functional equations. Pratsi Od.un. Zbir.stud.
rob. 149 no.5:121-124 '59. (MIRA 13:4)

1. Odesskiy gosudarstvennyy universitet.
(Functional equations)

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CIA-RDP86-00513R000514510001-4

GAVRILOV, M.I. [Havrylov, M.I.]

Works of O.M.Liapunov pertaining to the theory of equilibrium of a
homogeneous rotating fluid. Ist.-mat. zbir. 1:119-132 '59.

(Equilibrium)

(MIRA 14:2)

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CIA-RDP86-00513R000514510001-4"

(GAVRILOV, M. I.)

25152

16.3400S/021/61/000/004/004/013
D213/D303

AUTHOR: Gavrilov, M. I.

TITLE: A new method of investigating non-linear differential equations, based on the theory of moments

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dniprodi, no. 4,
1963, 429 - 433

TEXT: The author considers the equation

$$\frac{dp}{d\theta} = f(p, \theta) \quad (1)$$

where $f(p, \theta)$ is a complex function of a complex variable p and a real variable θ , of which the existence of a unique solution is guaranteed. Basic problem: The solution may be written in the form

$$p = \int_0^1 \tau \cdot \frac{M(\tau, \theta)}{\omega}$$

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where $\pi(\theta) > 0$, $\phi(\tau, \theta)$ is a non-vanishing function of τ with bounded variation in $[0, 1]$, $-\infty < \theta < \infty$.

$$\omega = \mu e \int_0^{\theta} f(\tau, s) ds$$

and μ is a parameter. If (1) is written as a series in powers of ω , then the basic problem is reduced solving the problem of moments in finite integration. The case where the right-hand-side of (1) does not depend on θ . The equation is then

$$\frac{d\phi}{d\theta} = \rho f(\rho) \quad (2)$$

where $f(\rho)$ is an integral or rational function, defined in the neighborhood $\rho = 0$ by the series

$$f(\rho) = \lambda + \sum_{n=1}^{\infty} a_n \rho^n,$$

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where a_n is a real number and $\lambda > 0$. Let

$$\frac{1}{f(\xi)} = b_0 + b_1 \xi + \dots$$

in the neighborhood $\xi = 0$, $\Phi(\rho)$ is the primitive form $\frac{\rho}{f(\xi)}$ which in the neighborhood $\rho = 0$ has the form $b_0 \log \rho + b_1 \rho + \dots$, and at other points is expressed as an analytic expansion of this "element". Then

$$e^{\lambda \Phi(\rho)} = \omega \quad (3)$$

and hence

$$\rho = \omega + \sum_{n=2}^{\infty} v_n \omega^n \quad (4)$$

[Abstractor's note: v_n not defined], in the neighborhood $\rho = 0$.

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From (4) the elements of the principal solution of (2) may be found. Writing $\rho = x + iy$, $f(\rho) = u - iv$, then, when θ is a real number

$$\frac{dx}{d\theta} = u(x, y), \quad \frac{dy}{d\theta} = v(x, y). \quad (6)$$

The system (6) is said to be normal if 1) there are no points of intersection on the negative x-axis, i.e. $f(\rho)$ has no negative roots; 2) there is at least 1 point of intersection on the positive real axis, of which the closest to the origin is $(\alpha_1, 0)$; 3) some integral curve of system (6) which comes from the origin and does not cut the negative x-axis and which lies in the finite part of the plane, passes through $(\alpha_1, 0)$ and has no other points of intersection with the positive x-axis. The field of integral curves of a normal system which lie in the upper half-plane define a region G which is bounded by a section of the real axis $(-\infty, \alpha_1)$ and some integral curve L which passes through $(\alpha_1, 0)$. This curve is called the barrier line. It may consist of several branches which

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go to infinity. A function $f(\rho)$ is said to be normal if its corresponding system (6) is normal. Theorem 1: The basic problem for equation (2) is soluble if $f(\rho)$ is a normal function. Theorem 2: If an integral function $f(\rho)$ is normal, then 1) $f(\rho)$ has no negative roots. 2) $f(\rho)$ has only one positive root. 3) if Γ is some infinite region of the upper half-plane, bounded by a contour γ which does not pass through any singular points of the function $\frac{f(\rho)}{\rho}$, then the residue theorem holds for Γ . 4) if $f(\rho)$ has imaginary roots and $\alpha_{k_1}, \alpha_{k_2}, \dots, \alpha_{k_m}$ is some combination of them in the upper half-plane, then the corresponding series $\sum \beta_{k_s}$ where β_{k_s} is the residue of the function $\frac{f(\rho)}{\rho^{k_s}}$ for α_{k_s} are convergent and the real part of their sum does not lie in the interval $(-\frac{1}{2}, 0)$. Theorem 3: For a normal rational function $f(\rho) = P_m(\rho)/Q_n(\rho)$ where P_m

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X

and Q_n are polynomials of degree m and n where 1) $m > n$, 2) P_m has no negative roots and at least 1 positive root, 3) all the roots of Q_n are positive and at least one root of Q_n exceeds the greatest root of P_m , 4) if P_m has imaginary roots and $\alpha_{k_1}, \alpha_{k_2}, \dots, \alpha_{k_s}$ is some combination of these in the upper half-plane, then the sum $\sum_{p=1}^s \beta_{k_p}$ has a real part which does not lie in the interval $(-\frac{1}{2}, 0)$ where β_{k_p} is the residue of $Q_n(\rho)/P_m(\rho) \cdot P_m(0)/Q_n(0)$ at the poles α_{k_p} . The author observes that if conditions 1), 2), and 3) are fulfilled and all the roots of P_m are positive, then P_m/Q_n is a normal function, and condition 4) does not apply. The author concludes by saying that the solution of more general problems will be discussed

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in later articles. There are 2 Soviet-bloc references.

ASSOCIATION: Odes'kyy derzhavnyy universytet (State University of
Odessa)

SUBMITTED: June 7, 1960

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GAVRILOV, M.I.

16.3400

25161

S/021/61/000/006/001/009
D247/P301

AUTHOR: Havrylov, M.I.

TITLE: On the method of moments in the theory of non-linear differential equations

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 6,
1961, 708 - 712

TEXT: In the author's paper (Ref. 1: Dopovidi AN URSR 429, 1961),
the problem of integral representation of the solution of the dif-
ferential equation was formulated.

$$\frac{dc}{d\theta} = \varphi f(\rho, \theta) \quad (1)$$

and some results for the equation obtained

$$\frac{d\rho}{d\theta} = \varphi \varphi(\rho). \quad (2)$$

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On the method of moments ...

In the present paper sufficient conditions for the solution of (1) are given to be represented in the form

$$\theta = \int_0^1 \frac{d\sigma(\tau; \theta)}{\tau + \omega}. \quad (3)$$

Here $\pi(\theta) > 0$, $\omega = v \exp \left(\int_0^\theta f(0, s) ds \right)$, v is a parameter, $\sigma(\tau, \theta)$ is a non-decreasing function of τ with limited variation on $[0, 1]$, $-\infty < \theta < +\infty$. Definition: $f(\rho, \theta)$ satisfies basic conditions if 1) it can be represented as

$$f(\rho, \theta) = \lambda(\theta) + \sum_{n=1}^{\infty} a_n(\theta) \rho^n. \quad (3')$$

$\lambda(\theta)$ and all $a_n(\theta)$ being real continuous functions on the axis $-\infty < \theta < +\infty$; 2) there exists $R_0 > 0$ such that, if $R < R_0$, $f(\rho, \theta)$ is continuous and bounded and the series (3') converges in

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the domain $|\rho| < R - \infty < \theta < +\infty$; 3) there is $\delta > 0$ such that $\lambda(\theta) > \delta$ if $-\infty < \theta < +\infty$. It is supposed that $f(\rho, \theta)$ satisfies basic conditions and is integral or rational with respect to ρ . If the condition of normality of $f(\rho, \xi)$ is fulfilled the principle solution of

$$\frac{d\rho}{d\theta} = \rho f(\rho, \xi) \quad (4)$$

represents the upper half-plane w conformally on some domain G_ρ . This domain is situated on the upper half-plane and varies if ξ is varied. (Fig. 1.) Its boundaries are the semiaxis $(-\infty, \alpha_1)$ and some integral curve L_ξ of the normal system which begins at the point $(\alpha_1, 0)$ and goes to infinity. This curve can consist of several parts which go to infinity; it is called the 'barrier line'. α_1 will be called the principle root. Substituting the author obtains a series of equations for consecutive determination of $u_1:u_2:\dots:u_n$. Let $\alpha_1(\theta)$ be non-decreasing on the segment $[\theta_0, \theta_1]$. Consi-

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On the method of moments ...

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der the auxiliary equation $d\varphi/d\theta = \varphi f(\varphi_1 \theta_0)$ and construct its principal solution according to (Ref.l: Op.cit.) in the form

$$\varphi = \sum_{n=1}^{\infty} v_n \omega^n, \text{ where } \omega = \mu e^{f(0, 0_0) \cdot \theta}, v_n = \text{const.}$$

Postulating that the $u_n(\theta)$ satisfy the initial conditions

$$u_n(\theta_0) e^{\int_{\theta_0}^{\theta} f(s) ds} = v_n e^{u_n(\theta_0) \theta_0}, n = 1, 2, \dots$$

Then $u_n(\theta_0)$ and therefore also $u_n(\theta)$ will be uniquely determined on $[\theta_0, \theta_1]$ and one has a formal series - a solution of (1) on θ_0, θ_1 . Call it 'auxiliary solution of (1) on $[\theta_0, \theta_1]$ '. Theorem A₁: Let $f(\varphi, 0)$ satisfy the principal conditions and let 1) $f(\varphi, \xi)$ be

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a normal integral or rational function of ρ , at any fixed ξ , $-\infty < \xi < +\infty$. 2) Let it be possible to divide the axis $-\infty < \xi < +\infty$ into segments of monotony of the root $\alpha_1(\xi)$, it being $\alpha_1'(\xi) \neq 0$ on all segments, and $f(\rho, \xi)$ depend regularly on ξ . Then the auxiliary solution which corresponds to any segment of monotony of the principal root can be represented on this segment in the form

$$\rho = \int_0^1 \frac{d\sigma_0(\tau; \theta)}{\tau + \frac{\pi_0(\theta)}{\omega}} ,$$

where $\pi_0(0) > 0$, $\sigma_0(\tau, \theta)$ is a non-decreasing function of τ with limited variation on $[0, 1]$. This theorem is proved by using Eq. (4) and the results of the author's previous paper (Ref. 1: Op.cit). The defect of this theorem is that the auxiliary solution is constructed separately for each interval of monotony of the root as the integral representation. Examples of the properties of the "spectral function" $\sigma(\tau)$ are given for particular cases. There.

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are 2 figures and 1 Soviet-bloc reference.

ASSOCIATION: Odes'kyy derzhavnyy universytet, (Odessa State University)

SUBMITTED: June 7, 1960

Fig. 1.

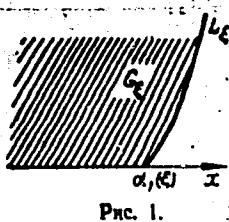


Fig. 1.

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GAVRILOV, Mikhail Konstantinovich; SHIRMOV, Aleksey Andreyevich; STEPICHEV,
Ivan Stepanovich; PRIDMAN, V.G., red.; SOROKINA, T.I., tekhn.red.

[Agriculture in Irkutsk Province during the past 40 years]
Sel'skoe khozaiistvo Irkutskoi oblasti za 40 let. [Irkutsk]
Irkutskoe knishnoe izd-vo, 1957. 120 p. (MIR 11:4)
(Irkutsk Province--Agriculture)

SILIMSKIY, P.P., otv.red.; BURTSEV, Ye.G., red.; GAVRILOV, M.K., red.;
MALYSHEV, R.P., red.; CHUYKO, K.V., red.; SHOTSKIY, V.P., red.;
FRIEDMAN, V.G., red.; SOROKINA, T.I., tekhn.red.

[Irkutsk Province; a concise manual of its economy and statistics]
Irkutskaya oblast'; kratkii ekonom-statisticheskii sbornik.
Irkutskoe knizhnoe izd-vo, 1958. 165 p. (NIRA 12:4)

1. Akademiya nauk SSSR. Vostochno-Sibiretskiy filial, Irkutsk.
(Irkutsk Province--Statistics)

KUZNETSOVA, A.I., prof., otv. red.; GAVRILOV, M.K., dots., otv. red.;
STRILEVA, G.F., red.; PECHERSKAYA, T.I., tekhn. red.

[Field crops of Irkutsk Province] Polevye kul'tury Irkutskoi oblasti.
Irkutsk, Irkutskoe knizhnoe izd-vo, 1960. 475 p. (MIRA 14:9)
(Irkutsk Province—Field crops)

ГАВРИЛОВ М.І.

1613400

28711

S/021/61/000/008/006/011
D210/D303

AUTHOR: Havrylov, M.I.

TITLE: On the method of moments in the theory of non-linear differential equations

PERIODICAL: Akademiya nauk Ukrayins'koyi RSR. Dopovidi, no. 8, 1961, 1007-1012

TEXT: The author's investigations (Ref. 2: DAN URSR 429 (1961) and 708 (1961)) are continued here. The author introduces the so-called principal solution of

$$\frac{d\theta}{d\rho} = \rho\varphi(\rho) \quad \text{and} \quad \frac{d\rho}{d\theta} = \rho f(\rho, \theta) \quad (1)$$

which is the one defined by the series

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$$\rho = \sum_{n=1}^{\infty} v_n(\theta) w^n, \text{ where } w = ve^{\int_0^\theta \lambda(s) ds}$$

and gives proof that this solution is in certain conditions represented on the whole axis $-\infty < \theta < +\infty$ by a Stieltjes integral

$$\rho = \int_0^1 \frac{d\sigma(\tau; \theta)}{\tau + \frac{\pi(\theta)}{w}}$$

$(\pi(\theta) > 0)$, $\sigma(\tau; \theta)$ is a non-decreasing function of τ with bounded variation on $(0, 1)$. The coefficients v_n are successively deter-

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mined from

$$v_1 = 1, v_2 = e^{-\int_{-\infty}^0 \lambda(s) ds}, \quad o_1(\theta) = e^{\int_{-\infty}^0 \lambda(s) ds}$$

$$v_n = e^{-(n-1) \int_{-\infty}^0 \lambda(s) ds}, \quad (v_1, v_2, \dots, v_{n-1}) e^{\int_0^\theta \lambda(s) ds}$$

If the series is transformed into a continued fraction the latter converges for all values of θ between $-\infty$ and $+\infty$ (form of fraction not given). In the same conditions as before it is necessary and sufficient, for the existence of a 2π -periodic solution when $f(o, \theta)$ is 2π -periodic in θ , that the integral $\int_0^\theta d\sigma(\tau, \theta)/\tau$ converge.

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and be a continuous function on $(0, \infty)$. $\sigma(\tau, \theta)$ is called a "spectral function" of (1) as it has many properties of the ordinary spectral function of Hermite's operator. The equation of the "boundary cycle" /Abstractor's note: The author appears to mean a 2nd periodic solution, but does not state it clearly /nearest to the point 0 is

$$\rho = \begin{cases} 1 & \text{d}\sigma(\tau; \theta) \\ 0 & \end{cases}$$

An estimation of the error in calculating the "boundary cycle" is given for the case when $r(p, \theta)$ is a "normal polynomial" /Abstractor's note: Not defined/. A criterion for "regular dependence" introduced in a previous paper (Ref. 2: Op.cit.) is given without proof. An effective and sufficient criterion for regular

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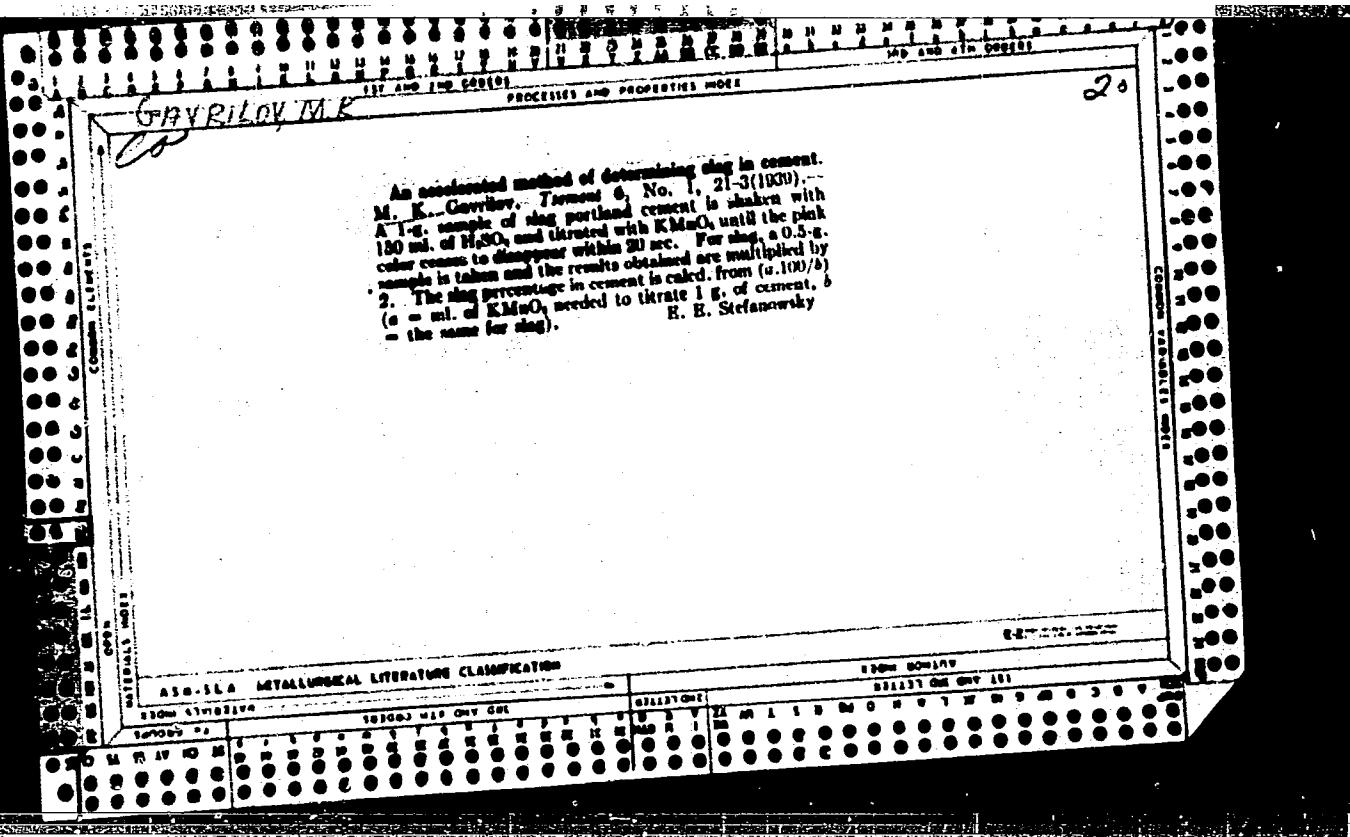
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D210/D303

ASSOCIATION: Odes'kyy derzhavnyy universytet (Odessa State University)

PRESENTED: by Academician UkrSSR, Y.Z. Shtokalo

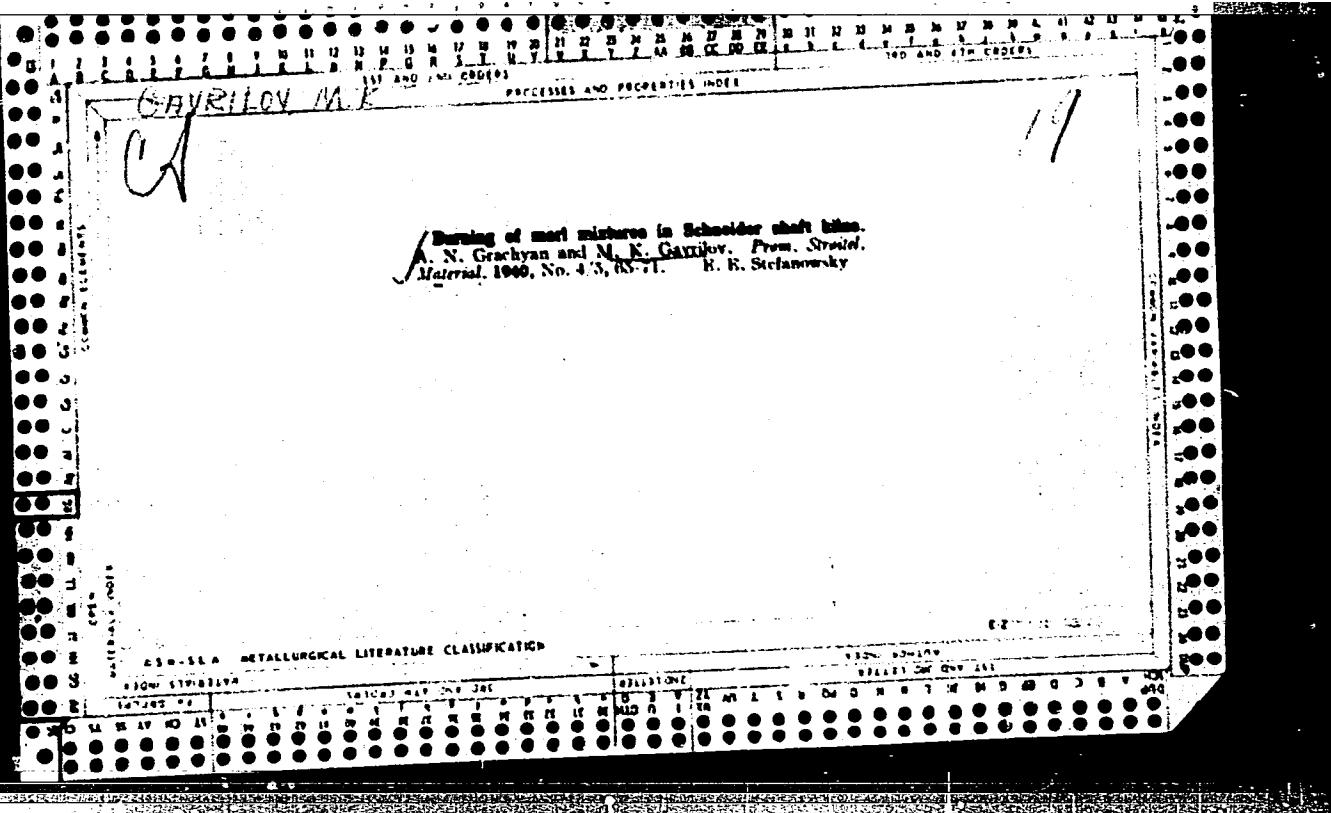
SUBMITTED: June 7, 1960

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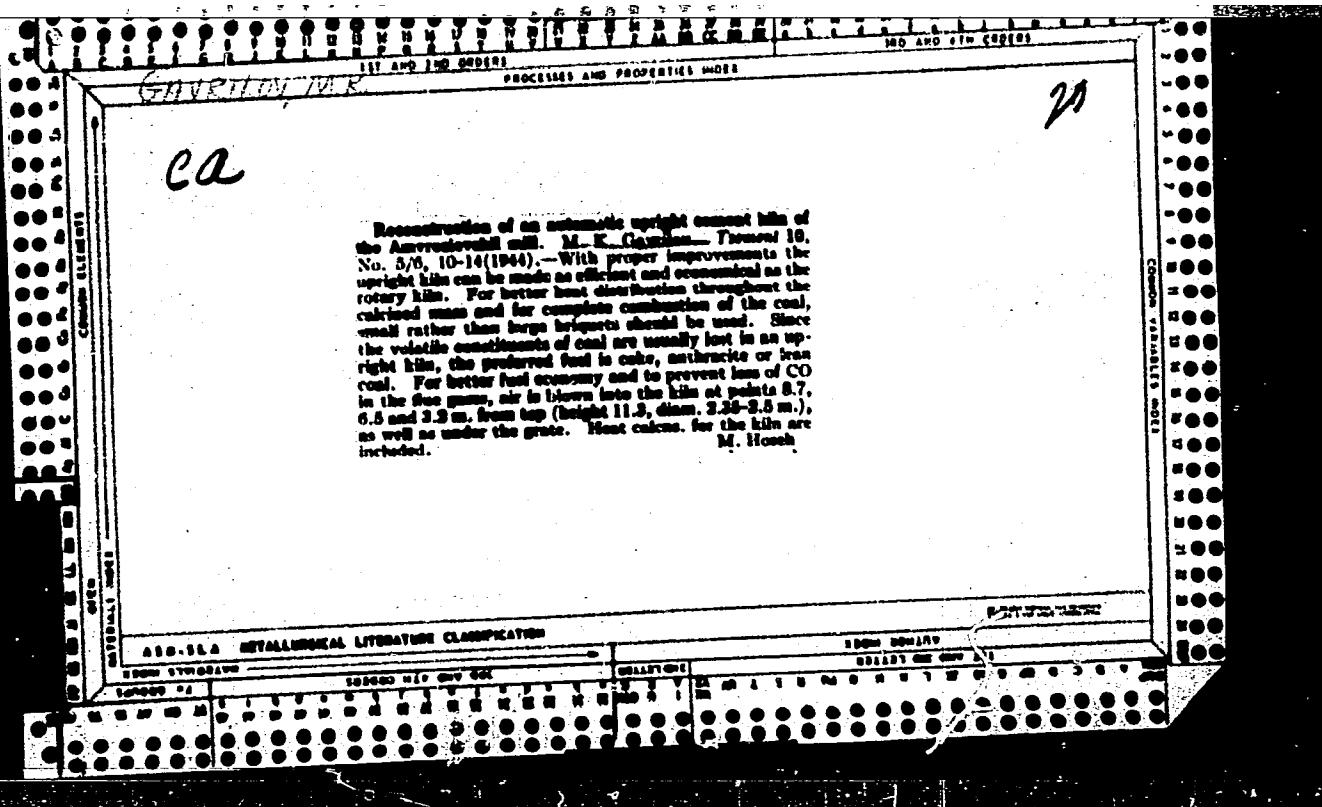
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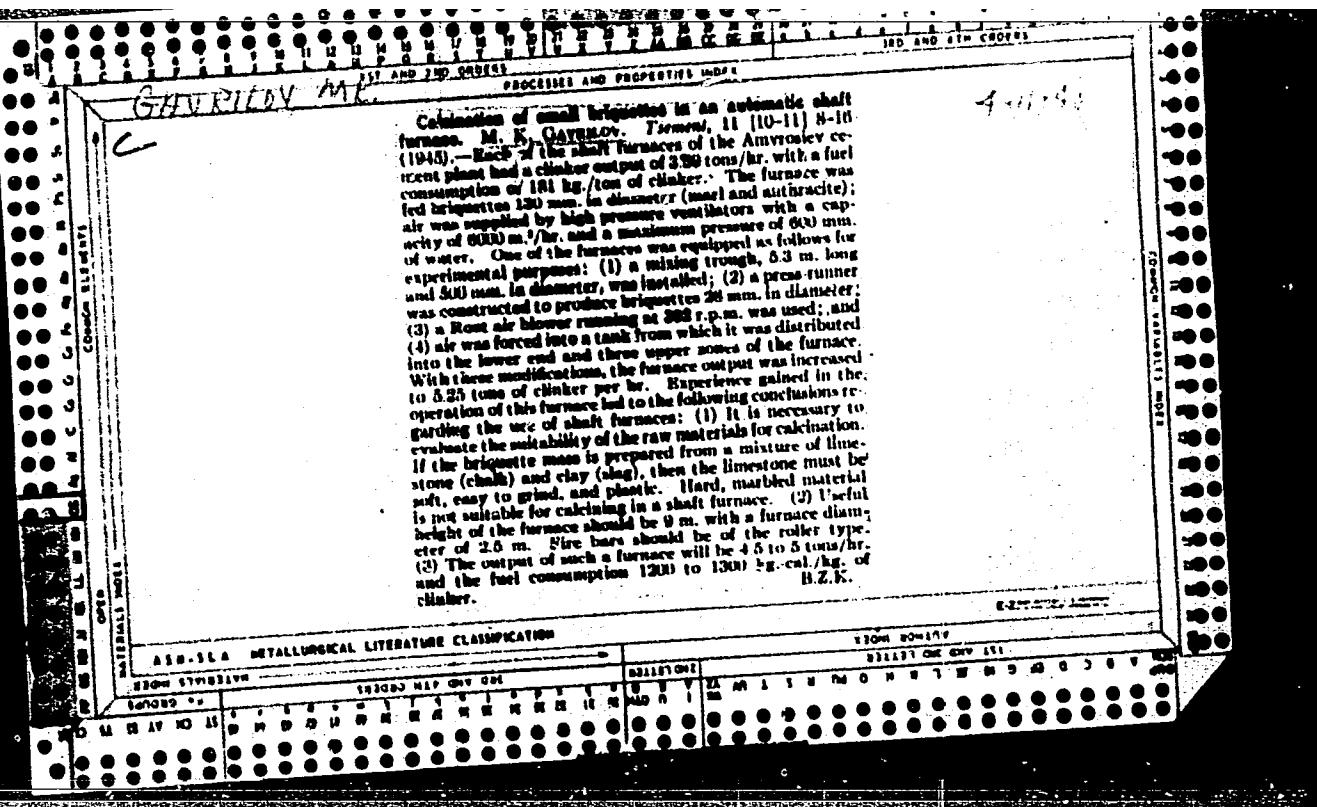
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GAVRILOV, M.K.

Method for determining productivity of rotary kilns. Truly
GIPROTSMENT 8:106-108 '47.
(Kilns, Rotary) (MIRA 10:4)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, M.K.

Technical norms for desiccators. Trudy GIPROTSEMENT 8:122-132
'47. (MLRA 10:4)
(Cement--Drying)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N.K.

~~Thermotechnical operation of rotary kilns. Trudy GIPROTSMENT~~
8:145-153 '47.
(Kilns, Rotary)

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CIA-RDP86-00513R000514510001-4"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, M.K.

Thermotechnical operation of shaft kilns. Trudy GIPROTSEMENT
8:154-164 '47. (MIRA 10:4)
(Cement kilns)

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CIA-RDP86-00513R000514510001-4"

BRIKER, A. S., inzh.; GAVRILOV, M. N., inzh.; KULTASHEV, Ye. N., inzh.

"Dzhanskoy"-type coal and ore carriers. Sudostroenie 28 no.10:
1-3 0 '62. (MIRA 16:1)

(Coal-carrying vessels)
(Ore carriers)

BRUKER, A.S., inzh.; GAVRILOV, M.N., inzh.; KULTASHEV, Ye.N., inzh.:

Results of testing the strength and vibration of "Dzhankoy"-type
ship hulls. Biul. tekh.-ekon. inform. Tekh. upr. Min. mor. flota
7 no.12:30-34 '62.

(MIRA 16:11)

1. Tsentral'nyy nauchno-issledovatel'skiy institut morskogo
flota.

STEPANOV, V.P.; MAKSIMOV, S.I.; GAVRILOV, M.N.; SEYDEL, L.R.

Electronic instrument for measuring the interface level
of raffinate and extract solutions. Mash. i neft. obor.
no. 3:22-25 '64.

(MIRA 17:5)

I. Nauchno-issledovatel'skiy i proyektnyy institut po
kompleksnoy avtomatizatsii proizvodstvennykh protsessov
v neftyanoy i khimicheskoy promyshlennosti.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, M.N.

buckling of the plates of the ship's hull in areas of large deformations. Trudy TSNIIMF no.66:62-66 '65.

(MIRA 18:12)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, M.S.

Concerning the project on lighting norms. Svetotekhnika 7 no.12:
23 D '61. (MIRA 14:12)

1. Sverdlovskoye otdeleniye Gosudarstvennogo proyektnogo instituta
"Tyazhpromelektroproekt".
(Electric lighting)

SOV/137-59-5-11302

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 5, p 260 (USSR)

AUTHOR: Gavrilov, M.Ye.

TITLE: Improved Technology of Forging Practice ✓

PERIODICAL: V sb.: Za novyyu tekhn. i progressivn. tekhnol. Minsk, Gos. izd-vo BSSR, 1958, pp 249 - 253

ABSTRACT: Information is given on achievements of leading plants, in particular those of the M.T.Z., in manufacturing press-formed forgings. Achievements are discussed in stamping on mechanical forge presses, cold and hot stamping, hot broaching of holes, pressing of bevel gears, and burrless stamping. ✓

Ye.L.

Card 1/1

PAGE I BOOK INFORMATION

Sov/013

Akademija nauk Belaruskoj SSR. Fiziko-tekhnicheskiy Institut

Sovetskij nauchno-tekhnicheskij trudov. Vyp. 5. (Collected Scientific Papers of the

Institute of Physics of Belorussian Branch, Academy of Sciences, Minsk, 1959. 235 p. Brat'je Lip-

iinskiy, 1,100 copies printed.

M. of Publishing House, L. Mardzis, Tech. Ed. I. Volkchanovich;
Editorial Board: V. P. Severdikov, A. Gerasimov, Academy of Sciences
SSSR (Chair. Ed.), V. V. Kozhevnikov, Academy of Sciences
SSSR, M. M. Bogolyubov, Candidate of Technical Sciences, and
F. M. Perminov, Candidate of Technical Sciences.

PURPOSE: This book is intended for technical personnel and scientific workers.

COVERAGE: This collection of 23 articles covers the following subjects: small draft rolling analysis of wire-drawing, design of drop-forging dies, impact upsetting, estimation of the effect of temperature on plastic deformation, sulphurization and austempering processes, the phenomena of pulse-discharge, etc.; "Impact-Black Drop Forging and Design Elements of Small-Size Forging Dies of Revolution" 66

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Bobrovskiy, M. N., Yu. M. Kuznetsov, N. M. Klyushnikov, and V. V. Pecherskiy. Investigation of Surface Quality Current Heating 178

Bobrovskiy, V. V., and V. M. Chishchikov. Investigation of a Low-Voltage Pulse Rectifier [by the Method of Time Scanning of a Long Pulse of Small Portions of the Measure]. 216

Bobrovskiy, I. O., and M. M. Glebovich. On the Mechanism of Phenomena [Occurring] on Electrodes During Electric-Pulse Discharges 189

Bobrovskiy, I. O., and M. M. Glebovich. On Phenomena [Occurring] on Electrodes in Electric Pulse-Discharges Through a Thin Metal Film 199

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Bobrovskiy, M. N. Problems in the Accuracy of Magnetic Techno- 213

meters 220

Bobrovskiy, I. O., and I. S. Bobrovskiy. Investigation of the 223

Correlation of Pulse Width Distribution

S/137/60/000/010/016/040
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1960, No.10, pp.. 123 - 124,
23426

AUTHORS: Severdenko, V.P., Prosvirov, N.T., Gavrilov, M.V.

TITLE: On the Magnitude of Flare in Open Swaging Dies

PERIODICAL: Sb. nauchn. tr. Fiz.-tekhn. in-t, AN BSSR, 1959, No..5, pp. 77-83

TEXT: The magnitude of flare should be determined by deviations from the rated dimensions of the blank and by the technologically required (guarantee) metal volume producing a resistance against metal outflow in the joint plane and assuring the accurate filling of the die impression. To assure a minimum magnitude of the guarantee metal volume, a V-shaped groove is recommended where, in proportion of the metal outflow into the flare, the forces impeding the outflow are increasing. The magnitude of the guarantee volume was experimentally established to be 2 - 5% of the forge work weight, when swaging forgings, having the shape of revolution bodies, by the upsetting method with low outflow, and using dies with a V-shaped flare groove. M.Ts.

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

S/571/60/000/006/004/011
E193/E383

AUTHORS: Severdenko, V.P., Gayrilov, M.Ye., Makushok, Ye.M.
and Segodnik, A.F.

TITLE: Concerning the problem of closed-die stamping on
crank presses for hot forging

SOURCE: Akademiya navuk Belaruskay SSR. Fiziko-tehnicheskiy
institut. Sbornik nauchnykh trudov. no. 6, Minsk,
1960, 58 - 65

TEXT: The object of the present investigation was to study
elastic deformation of the press/die system during closed-die
forging on 1 500 - 2 500 tons crank presses in order to establish
the conditions under which both over-filling and finning could
be avoided. In spite of the high rigidity of crank presses, they
undergo a certain degree of elastic deformation during a forging
operation. This is illustrated in Fig. 1, where the elastic
strain (ϵ , mm) in 1 500- and 2 500-ton presses is plotted against
the applied load (P, tons), the broken lines representing data
supplied by the makers, the continuous lines representing the
characteristics of the press/die system determined by the

Card 1/8

S/571/60/000/006/004/011

Concerning the problem

E193/E383

present authors. It was found that under the nominal load the height of the die impression in 1500 - 2 500-ton presses increased by 2.5 and 5.0 mm, respectively. In addition to elastic deformation in the vertical direction, the die deformed elastically in the horizontal direction due to pressure exerted on its walls by compressed metal, the resultant increase in the diameter of the die amounting to 0.5 mm. It is precisely because of this increase in the volume of the die impression that some variation (unavoidable in practice) in the volume of slugs is permissible, which makes closed-die forging a practical proposition. When the actual forging force, P , is lower than the nominal rating of the press, P_0 , there is a certain reserve of elastic strain equal to $\epsilon_0 - \epsilon$ (see Fig.1), which permits accommodating a certain excessive volume of the slug. If the radial strain is also taken into account, the increase in the volume of the die impression, ΔV , can be calculated from:

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E193/E383

Concerning the problem

$$\Delta V = \epsilon_0 \left(1 - \frac{P}{P_c} \right) \frac{\pi D^2}{4} + \pi D \sqrt{hH} (\Delta d) \quad (3)$$

where ϵ_0 is the elastic strain of the press under a load,
 P_0 is equal to the nominal rating of the press,
D and H denote the maximum diameter and thickness of
the forging,
d and h are the diameter and the height of the slug and
 Δd is the elastic strain of the die diameter.

In practice, ΔV can amount to more than 5% of the nominal volume of the die impression. At the same time, the volume of slugs can also vary due to unavoidable variation in their length and diameter. This variation, Δv , can be calculated from:

$$\Delta v = \frac{\pi d^2}{4} (\Delta h) + \pi dh (\Delta d) \quad (4)$$

Card 5/8

S/571/60/000/006/004/011
E193/E383

Concerning the problem

where Δh and Δd are the specified dimensional tolerances of the length (h) and diameter (d) of the slug. If the condition $\Delta V \geq \Delta v$ is fulfilled, closed-die forging can be performed without the provision of a compensating hollow in the die. In this connection, a rapid method of gauging the slug length is required and Fig. 2 shows schematically a closed-die with a device suitable for this purpose. As one forging is being produced, a conical indenter, set at a predetermined position, approaches the flat end of a conveniently-placed slug.

At the end of the stroke the indenter enters the metal and, since the dimension of the resultant impression is ten times greater than its depth, excessively long slugs can be easily identified by visual examination. If ΔV is smaller than Δv , a compensating hollow has to be provided in the die. Its volume is given by:

$$V_{\text{KOMN}} \geq \Delta v - \Delta V \quad (5)$$

Card 4/8

S/571/60/000/006/004/011

E193/E383

Concerning the problem

Associated with over-filling is the problem of finning. Limitations imposed by the design of the die assembly and stroke of the ejector make it impossible to solve this problem by increasing the length of the lock. The tendency to finning, however, can be reduced or even eliminated by improved lock design, such as is shown in Fig. 3, in which the locking part of the top die and the corresponding part of the bottom die are both cylindrical. This design feature, permissible owing to the presence of an ejector, results in a constant lock clearance and prevents compression of the fin (when it is formed), which is unavoidable when a conical lock is employed. The approximate length, ℓ , of the cylindrical portion of the lock which will secure timely closure of the die in forging of gear blanks with a relatively low rim and hub can be found from:

$$\ell_T > \ell > \frac{4V}{\pi D^2} - H_o \quad (7)$$

Card 5/8

S/571/60/000/006/004/011
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Concerning the problem

where ℓ_T is the ejector stroke,

V the volume of the forging,

D its maximum diameter and

H_o its thickness at the circumference.

The optimum lock clearance, δ , is between 0.1 and 0.2 mm. To avoid the risk of misalignment, the edge of the cylindrical portion of the top die is bevelled at 20° and the edge of the bottom die is given a radius of 1 mm. A gap $\delta_1 = 3 - 5$ mm

is provided between the horizontal faces of the top and bottom dies to allow for an extra compression when the die is slightly under-filled or to accommodate crushers used to control the forging force in presses not equipped with a dynamometer.

There are 4 figures.

Card 6/8

Concerning the problem

S/571/60/000/006/004/011
E195/E583

Fig. 1:

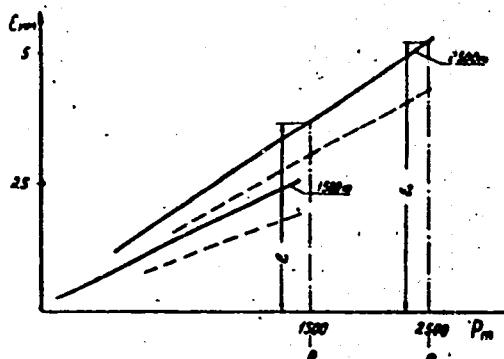
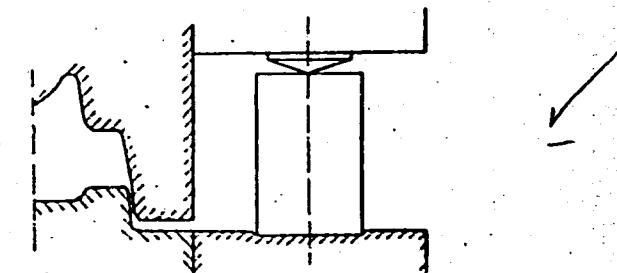


Fig. 2:

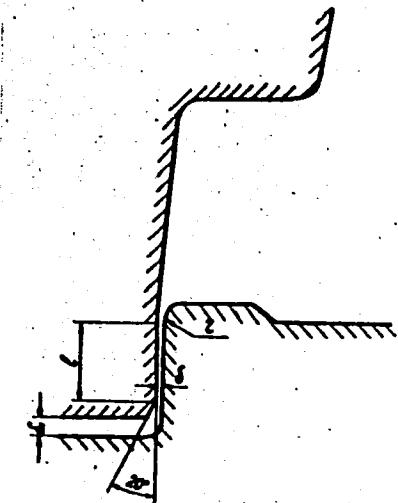


Card 7/8

Concerning the problem

S/571/60/000/006/004/011
E193/E383

Fig. 3:



Card 8/8

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N.A., podpolkovnik meditsinskoy sluzhby

Method for preserving material of wild rodents for delivery to
laboratories. Voen.-med. zhur; no.5:83 My '61. (MIRA 14:8)
(ANATOMICAL SPECIMENS—COLLECTION AND PRESERVATION)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

NIKOL'SKIY, L.N.; GAVRILOV, M.Ye.; KUZNETSOV, A.V.; PANICHEV, F.P.

Experience in and ways of introducing rotary swaging for further
forging. Kuz.-shtam.proizv. 5 no.8:15-18 Ag '63. (MIRA 16:9)

G A V R I L O V, M.Z.

2/17/24(6)
Approved: Dr. I. G. Andronov 43

Revised: 207/70-92-9-9/77

Investigations by Belarusian Scientists in the Field of
Optoelectronics and Semiconductors (theory, devices, materials,
apparatus)

Vestnik Akademii Nauk SSSR, 1959, no. 1, pp. 66-75. (um)

These investigations are being carried out at the Institute
of Physics and Mathematics (part of the Institute
of Mathematics and Mathematics) (Institute of Mathematics and
Mathematical Problems, Belorussian University) under the
direction of Prof. Stepanov, A. N., Professors A. V. Tikhonov and
V. V. Proskur, Department Heads, V. V. Kostylev, V. V.
Korobkov, V. V. Kostylev, V. V. Shchegoleva, Associate
Professors of Belarusian, 1959, and the Department Heads
of Belarusian, 1959. In the field of theoretical aspects
of the investigations by Prof. V. V. Stepanov, Prof. A. V. Tikhonov
and others, the investigations are outlined. Further, the following in-
vestigations are indicated:

1. Optical characteristics and the general
principles of spectroscopy of negative current in their
semiconductors.

In the field of experimental data, Dr. N. Slobodan obtained
optical results in the determination of carrier volume of
semiconductors of the same composition, size and
shape. D. V. Savchenko, Dr. V. V. Stepanov, used
methods of large crystallizing of semiconductors and
photocells.

A. N. Tikhonov, engaged in absolute fundamental research in
the organization of laboratories of photoluminescence. He also
showed that the efficiency of quantum oscillations may be
lower than one.

A. N. Tikhonov, under the direction of A. N. Tikhonov, carried
out the influence of the forces on the trials of fluorescence
as well as the absorption and emission spectra.

In the field of optical properties, Dr. T. G. Gerasimova studied
the luminescence polarization of many semiconductors. At
the same time they designed an improved apparatus.
A. N. Tikhonov, V. V. Shchegoleva, work in the field of lum-
inescence of semiconductors continues.

V. A. Filimonov studied the phenomena of photoconductivity,
luminescence and optical properties of ultrahigh and
related compounds. He also carried out his close cooperation
in the Institute of Semiconductors and Solid State Physics
of the Academy of Sciences of the Soviet Union (Institute of
Solid State Physics, Belorussian SSR).

B. G. Gol'dberg, Dr. V. V. Kostylev, conducted the
investigation of luminescence spectrum of a live leaf.

Dr. V. V. Kostylev, Dr. V. V. Stepanov, Dr. A. V. Tikhonov,
and others studied the dependence

of the parameters of the wave length of fluorescence
of phosphorescence on the concentration of the substances

in phosphors and the nature of latex.

Dr. V. V. Stepanov studied the optical and electrical properties
of some crystalline phosphors.

Dr. V. V. Stepanov, Dr. A. V. Tikhonov studied colloids and the
products of transformation.

Dr. A. N. Blazhkov, Dr. A. N. Tikhonov worked at high pressure in
optoelectrical methods.

Dr. V. V. Tikhonova, Dr. N. V. Zabrodina examined the conductivity
of semiconductors by means of nitrogen dioxide, iodine
and chlorine.

Dr. V. V. Shchegoleva, Dr. V. V. Stepanov, Dr. A. N. Tikhonov,
Dr. V. V. Tikhonova, Dr. A. N. Blazhkov examined the sorbiting process of
colloidal suspensions.

Dr. V. V. Stepanov, Dr. A. N. Tikhonov examined the oxidation
of colloids with the use of absorption spectrometry in the
ultraviolet range.

In polyethylene and cellulose were optoelectrically
studied the absorption of scattering substances on cellulose.

Dr. V. V. Tikhonova, Dr. A. N. Tikhonov examined the luminescence
of cellulose products.

In Stepanov, Dr. V. V. Stepanov determined the destruc-

GAVRILOV, M.Z.

PAGE 1 BOOK INFORMATION

607/6/73

Novosibirsk, by Izdatgostekhnika, 8th ed., 1959
Nordic Academy of Sciences, Materials of the 8th Conference, Novosibirsk, 1959
All Russia, 1960. 217 p., 1,000 copies printed.

Sponsoring Agency: Academy and Laboratory Ser. Institute of
General Phys. N. A. Semenovitch, Dr. I. Timofeev, Tech. Ed.
Editor: N. S. Silchenko.

PURPOSE: This collection of articles is intended for chemists and phys-
icists interested in molecular luminescence, and for scientific per-
sonnel concerned with applications of this and related phenomena to
research in the life sciences.

CONTENTS: The collection contains 20 papers read at the Eighth Con-
ference on Luminescence, which took place 19-26 October, 1959 (place
of conference not given). These studies are concerned principally
with the development of new luminescence methods for quantitative
and qualitative chemical analysis and with the applications of lum-
inescence in medical and biological research. They discuss lumines-
cence methods for the determination of organic, inorganic, radioactive
elements, metals and other elements, as well as luminescence methods
for the diagnosis of skin cancer and the detection of signs of tumor,
pathological alterations etc. The structural design of new de-
vices for luminescence analysis is described. The conference
was not concerned with studies on the photoluminescence of crystal
phosphors. There is discussion of the contributions of Soviet
physicists to molecular luminescence in the course of the work
being carried out at the conference. The articles of V. K. Matveyev
(p. 79) and of V. P. Petrenko (p. 70) have been selected because
of their importance. No non-Sovietian are mentioned. References
are generally brief, or the articles.

7. Petrenko, V. P. Testing the Fluorescence Properties of

Fluorophores. In: Luminescence Research Institute

65

of Chemical Reagents. Dyes for Fluorescence Microscopy

Matveev, V. K. [Institut Organicheskoy Khimii i Metal-

lof. D. Zelinskogo Akad. Nauk (Institute of Organic Chemistry and

Chemical Physics of the USSR)] Preparation and Applications of
Organic Luminescent Compounds

The author reports on his synthesis of an organic luminescent

substance which exhibits strong red luminescence after
exposure to ultraviolet light. The new luminescent has
made it possible to use luminescence in detectorometry in the
chemical and electronic industry for the de-
tection of organic substances in the walls of glass products, and so on. In
addition, the author claims that this method has
the advantage of being inexpensive.

Petrenko, V. P. and V. K. Matveyev [Institute of Organic
Chemistry, Inst. D. Zelinskogo Akad. Nauk]. New Dyes of
Heterocyclic Compounds and Heterocyclic Substances
(The authors discuss a number of applications of luminescence,
that is, a method using such dye with a luminescent substi-
tute to study solid crystals during hydroelectric dam con-
struction work. The authors claim that this method has
come into wide use in the USSR and other countries in re-
cent years.]

Petrov, M. B., T. A. Galaktion, R. A. Smirnova, and

V. V. Silchenko [Novosibirsk University, Inst. Gen.
N. A. Semenov]. Utilization of Ultraviolet Rays in

Paper Chromatography

Fomenko, I. N., A. Z. Gerasimov, and L. P. Glushchenko.

Institut Fiz. Akad. Nauk (Institute of Physics of Metals).

Other or Advertised User on the Luminescence of Cellulose
Materials

79

75

61

Card 6/10

S/058/61/000/009/015/050
A001/A101

AUTHORS: Yermolenko, I.N., Gavrilov, M.Z., Gladchenko, L.F.

TITLE: Effect of adsorbed water on luminescence of cellulose materials

PERIODICAL: Referativnyy zhurnal. Fizika, no. 9, 1961, 101, abstract 9V204 (v
sb. "Metody lyuminestsentr. analiza", Minsk, AN BSSR, 1960, 83-86)

TEXT: It was discovered that adsorption of water, especially at low vapor pressure, reduces the intensity of fluorescence of rhodamine 6 X(6Zh) adsorbed on cellulose. At transition to capillary condensation of water the further intensity drop is insignificant. The authors propose to utilize the phenomenon discovered for developing a method of checking the content of adsorbed water in cellulose during its drying. Besides rhodamine other luminescent dyestuffs (auramine, trypaflavine) can be used for this purpose. ✓

A. Shablya

[Abstracter's note: Complete translation]

Card 1/1

L 12358-63

EWP(q)/EWT(m)/BDS AFFTC/ASD JD

S/081/63/000/005/016/075

54

AUTHOR: Yermolenko, I. N., Gavrilov, M. Z. and Longin, M. L.TITLE: A new analytical method for traces of metals 27PERIODICAL: Referativnyy zhurnal, Khimiya, no. 5, 1963, 13, abstract 5030
(Prom-st' Belorussii, 1962, no. 8 (51), 5-7)

TEXT: A submicroanalytical methodology has been developed for determining metals on the basis of combinations of advantages which are achieved by application of ion-exchange concentration, dyeing with color reagents directly on ion-exchange paper and determination of the metal content on paper from diffuse reflection spectra. Na -form of nitric oxide oxidized cellulose was used as ion exchanger (in the form of chromatographic paper). The spectra of diffuse reflection were measured by means of a SF-4 spectrophotometer with modified cell compartment. A test was conducted on the determination of nitrogen in analyses of water solutions (0.0001 - 1 γ/ml) using dimethylglyoxime as coloring solution. F. Sudakov.

(Abstractor's note: Complete translation)

Card 1/1

YERMOLENKO, I.N.; LONGIN, M.L.; GAVRILOV, M.Z.

Quantitative determination of nickel and manganese traces
by the diffusion reflection spectra with a preliminary
concentration on a cellulose ion exchanger. Zhur.anal.khim.
17 no.9:1035-1039 D '62. (MIRA 16:2)

1. Institute of General and Inorganic Chemistry and Sect. of
Gerontology, Academy of Sciences, B.S.S.R., Minsk.
(Nickel--Analysis) (Manganese--Analysis)
(Spectrum analysis)

ZOSIM, Z. L.; YERMOLENKO, I. N.; GAVRILOV, M. Z.

Spectroscopic methods of investigating the thermal degradation
of woodpulp materials. Ukr. khim. zhur. 28 no.6:729-731 '62.
(MIRA 15:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut tsnellyulosnoy i
bumazhnoy promyshlennosti i Institut obshchey i neorganicheskoy
khimii AN BSSR.

(Paper—Spectra)

GAVRILOV, M.Z.; YERMOLENKO, I.N.

Diffuse reflection spectra of the products of thermal aging of
modified-cellulose determining their yellowing. Dokl. AN BSSR
7 no.9:606-609 S '63.
(MIRA 17:1)

1. Institut obshchey i neorganicheskoy khimii AN BSSR.
Predstavleno akademikom AN BSSR M.M. Pavlyuchenko.

GAVRILOV, M.Z.; YERMOLENKO, I.N. (Minsk)

Diffuse reflection spectrophotometry used for investigating
the sorption of dyes by fibrous cellulose materials. Zhur.
fiz. khim. 37 no.11:2491-2495 №63. (MIRA 17:2)

1. Institut obshchey i neorganicheskoy khimii AN RSSR.

ACCESSION NR: AP4020969

8/0051/84/016/003/0630/0831

AUTHOR: Yermolenko, I.N.; Gevrilov, M.Z.

TITLE: Influence of light scattered by an SF-4 spectrophotometer on the results of optical density measurements in the short wavelength ultraviolet

SOURCE: Optika i spektroskopiya, v.16, no.3, 1964, 530-531

TOPIC TAGS: SF-4 spectrophotometer, scattering in spectrophotometer, ultraviolet absorption measurement

ABSTRACT: For accurate spectrophotometric measurements it is essential to allow for scattering and there have been many studies devoted to evaluation of scattering. The present paper gives the results of investigation of the effect of scattering on the optical density as measured by an SF-4 spectrophotometer in the 200-220 μ region with different sources (a German D₂-0.3 deuterium tube and a VSFU-3 hydrogen discharge tube) and different radiation detectors (FEU-39 photomultiplier with quartz windows), an STsV-6 photocell, and an FEU-18 photomultiplier with Uviol windows. The absorber was a water solution of ethyl alcohol, taken in sufficient thickness to absorb completely the radiation in the chosen narrow line. The results are

Card 1/2

ACCESSION NR: AF4020969

presented in the form of a number of curves. It is emphasized that the reported data apply only to the given spectrometer, and sources and detectors; in fact, for results of highest accuracy analogous measurements should be performed with the specific substance being investigated. Orig.art.has: 1 figure.

ASSOCIATION: none

SUBMITTED: 13May63

SUB CODE: PH,SD

DATE ACQ: 02Apr84

NR REF Sov: 001

ENCL: 00

OTHER: 002

Card 2/3

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

YERMOLENKO, I.N.; LONGIN, M.L.; GAVRILOV, M.Z.

Concentration of metal traces on a ion-exchange paper with their
subsequent determination. Trudy Kom. anal. khim. 15:353-357 '65.

(MIRA 18:7)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, M.Z.; YERMOLENKO, I.N.; YELINA, G.L.

Ultraviolet absorption spectra of acetyl cellulose. Opt. i
spektr. 18 no.3:515-517 Mr '65. (MIRA 18:5)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, N.

N/5
727.4
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GAVRILOV, N.

Kolkhoznaya koneferma (horse raising collective farm, by)
N. Gavrilov i L. Nusenki. Krasnodar, krasnodarskoye knizhnoye
izd-vo, 1954.

60 P. illus., ports., tables.

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N. (Dudinka, Krasnoyarskiy kray)

Fire caused by a portable electric lamp. Pozh.delo 6 no.5:21
My '60. (MIRA 13:8)
(Electric lamps, Portable)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, N., ryadovoy

Our strict requirements to ourselves. Komm. Vooruzh. Sil 46 no.2:
70 Ja '66.
(MIRA 19:1)

1. Sekretar' byuro pervichnogo Vsesoyuznogo Leninskogo kommunisti-
cheskogo soyuza molodezhi.

BULGARIA

GANOVSKI, Dr. D., PANCHEV, Dr. L., DIMITROV, Dr. K., and GAVRILOV, Dr. N.,
Research and Production Institute for the Control of Hog Diseases, Vratsa

"Immunogenic Characteristics of Crystal-Violet Vaccine Against Hog Cholera"

Sofia, Veterinarska Sbirka, Vol 63, No 2, 1966, pp 6-9

Abstract: Production of crystal-violet vaccine against hog cholera, which was introduced in Bulgaria in 1947 by Chenchev and Khristov, has been increased since then because of the expansion in hog breeding and the necessity to immunize a greater number of hogs. Furthermore, a reserve supply of the vaccine must be kept in cold storage because of the possibility that the infection may be introduced from abroad. According to official instructions, the ultimate length of time during

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BULGARIA

Sofia, Veterinarska Sbirka, Vol 63, No 2, 1966, pp 6-9

which the vaccine kept in cold storage can be used is 12 mos. Tests which have been carried out on vaccine kept in cold storage for 18, 22, 24, and 27 mos indicated that the vaccine was sterile, harmless to laboratory experimental animals and hogs, and effective with respect to its immunogenic characteristics for a period of up to 2 yrs. The period for which the vaccine is specified to be effective in the instructions should be increased accordingly. Table. Russian and English summaries.

2/2

- 68 -

1/1

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N. A.

GAVRILOV, N. A. -- "BALNEOTECHNICS OF SULFIDE MINERAL WATERS." SUB 26 MAR 52, ACAD MED SCI USSR (DISSERTATION FOR THE DEGREE OF CANDIDATE IN TECHNICAL SCIENCES)

SO: VECHERNAYA MOSKVA, JANUARY-DECEMBER 1952

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, Nikolay Alekseyevich, kandidat tekhnicheskikh nauk, PORFIR'YEV,
N.N., redaktor; MEL'CHIKOVA, Yu.S., tekhnicheskiy redaktor.

[Balneology of mineral waters; piping, pumping, heating, chilling
and storing] Bal'neotekhnika mineral'nykh vod; transportirovaniye
po truboprovodam, perekachivaniye, nagrevaniye, okhlashchenie i khranenie.
Moskva, Gos.izd-vo med.li-ry, 1955. 126 p. (MIRA 9:4)
(Mineral waters)

GAVRILOV, N.A., kand.tekhn.nauk

Using equipment for handling therapeutic mud. Vop.kur. fizioter.
i lech fiz. kul't. 23 no. 6:569-570 N-D '58 (MIRA 11:12)
(BATHS, MOOR AND MUD)

ARSLANOVA, A.Kh.; BELYAKOV, V.D.; BERGER, B.I.; VASIL'YEV, A.S.; GAVRILOV,
N.A.; GEL'MAN, L.I.; KALUGIN, V.P.; KOROSTELEV, V.Ye.; KRAMER,
I.I.; MIKHAYLOVSKIY, V.T.; ROGOZIN, I.I.; SEREBRYAKOV, L.V.

Combined vaccination with chemical and living vaccines. Voen.-med.
zhur. no. 1:78-80 Ja '60. (MIRA 14:2)
(VACCINATION)

GAVRILOV, N.A., kand.tekhn.nauk

Balneological technic for mineral waters and therapeutic muds.
Med. sestra no.5:41-50 My '61. (MIRA 14:6)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta
kurortologii i fizioterapii Ministerstva zdravookhraneniya RSFSR,
Moskva.

(MINERAL WATERS) (BATHS, MOOR AND MUD)

GAVRILOV, N.A.

Standard design for sanatoria and rest homes. Vop. kur., fizioter.
i lech. fiz. kul't. 26 no.1:68-72 '61. (MIRA 14:5)

1. Iz Instituta kurortologii i fizioterapii Ministerstva zdravookh-
raneniya RSFSR (dir.-kandidat meditsinskikh nauk G.N.Pospelov).
(SANATORIUMS) (LABOR REST HOMES)

NEVRAYEV, G.A., red.; BAKHMAN, V.I., red.; VALEDINSKIY, V.I.,
red.; GAVRILOV, N.A., red. [deceased]; IVANOV, V.V., red.

[Materials on the study of therapeutic mineral waters
and muds and on balneotechnics] Materialy po izucheniiu
lechebykh mineral'nykh vod i griadel i bal'neotekhnike.
Moskva, 1964. 144 p. (MIRA 18:11)

1. Moscow. TSentral'nyy nauchno-issledovatel'skiy institut
kurortologii i fizioterapii. 2. Otdel izucheniya kurortnykh
resursov TSentral'nogo instituta kurortologii i fiziotera-
pii (for Bakhman).

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

In memory of Nikolai Alekseevich Gavrilov, 1881-1963. Vop. kur.,
(Izichter. i lech. fiz. kul't. 29 no.1:94 '64.

(MIRA 17:9)

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CIA-RDP86-00513R000514510001-4"

GAVRILOV, N.D.

Specificity of Huddleson's reaction and its diagnostic value in
brucellosis. Zhur.mikrobiol.epid. i immun. no.9:88-89 S '55.
(MLRA 8:11)

1. Iz Krasnodarskoy krayevoy protivobrudselleznoy stantsii
(glavnyy vrach Ye.V.Strikhanova, nauchnyy rukovoditel'--prof.
B.P.Pervushin)
(BRUCELLOSIS, diagnosis,
Huddleson's agglut.reaction)

M

Country : USSR
CATEGORY : Cultivated Plants. Grains.
ASS. JOUR. : RZBiol., No. 21, 1958, No. 95902
AUTHOR : Gavrilov, N.P.
INST. : Voronezh Agric. Inst.
TITLE : Boosting the Grain Crop Productivity by
Improvement of the Row Sown Seed Quality.
ORIG. PUB. : Zap. Voronezh. s.-kh. in-ta, 1957, 27, No. 2,
291-296
ABSTRACT : No abstract

CARD: 1/1

GAVRILOV, N. F., Cand Agr Sci -- (diss) "Study and means of improving the
(Sowing of) quality of grain crops." Voronezh, 1959. 25 pp (Min of Agr RSFSR. Voronezh
Agr Inst), 150 copies (KL, 50-59, 128)

GAVRILOV, N.F., kand. sel'skokhoz.nauk

Even distribution of seeds at the increased operating
speed of drills. Mekh. i elek. sots. sel'khoz. 19 no.3:33-34'61.
(MIRA 14:6)

1. Krasnoyarskiy sel'skokhozyaystvennyy institut.
(Drill(Agricultural implement))

GAVRILOV, N.G.

GAVRILOV, N.G.

Against complicating calculations ("Calculating cost of railroad transport." M.G. Trubikhin, V.A.Dmitriev. Reviewed by N.G.Gavrilov) (MIRA 10:10)
Zhel.dor.transp.39 no.9:94-96 S '57.
(Railroads—Cost of operation) (Trubikhin, M.G.)
(Dmitriyev, V.A.)

ACC NR: AP7001393

(N)

SOURCE CODE: UR/0413/66/000/021/0062/0062

INVENTOR: Treskin, S. A.; Shpirnov, V. A.; Gavrilov, N. G.

ORG: none

TITLE: Method of applying a conductive metal coating on a glass-insulated microwire.
Class 21, No. 187860 [announced by the Scientific Research Institute of Non-destructive Testing (Nauchno-issledovatel'skiy institut introskopii)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 21, 1966, 62

TOPIC TAGS: microwire, glass insulated microwire, metal coated microwire, gold coated microwire, glass coating

ABSTRACT: This Author Certificate introduces a method of forming a conductive metal coating on a glass-insulated microwire. To produce good quality coating along the whole length of a wire, the latter is first passed through a capillary tube filled with a chemically inert metal liquid, such as gold, and then through a furnace in which the metal is sintered to the glass. [ND]

SUB CODE: 13/ SUBM DATE: 12Jul65/ ATD PRESS: 5110

Card 1/1

UDC: 621.315.36

GAVRILOV, Nikolay Ivanovich; SOKOLOVA, G., red.; SHLYK, M.,
tekhn. red.

[Using solar energy in greenhouses] Ispol'zovanie solnechnoi
energii v zashchishchennom grunte. Moskva, Mosk. rabochii,
1963. 147 p. (MIRA 17:2)

GAVRILOV, Nikolay Ivanovich; ZABIROV, B.Sh., red.; GLEYKH, D.A.,
tekhn.red.

[French West Africa] Frantsuzskaia Zapadnaia Afrika. Moskva,
Gos.izd-vo geogr.lit-ry, 1959. 68 p. (MIRA 13:1)
(Africa, French West--Economic conditions)

Hawari 10v 7/1

Hypotensive function of pancreas. S. V. Andreev, N. V. Oparinskaya, I. D. Kobkova, and N. I. Gavrilov. *Doklady Akad. Nauk S.S.R.* 105, 848-61 (1955). Successive and repeated treatment of freshly frozen and minced beef pancreas with 96% EtOH and dry Me₂CO resulted in isolation of an active principle, hypotinin GASK, pre-

dominantly in fraction ppd, with 37% Me₂CO. The depression of arterial pressure induced by it in dogs is prolonged and rapid; diastolic pressure is also reduced.

G. M. Kozokoff

MV (3)

GAVRILOV, N.I.

USSR/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91675

Author : Gavrilov, N.I.

Inst : Timiryazev Agricultural Academy

Title : New Heating System for Sheltered Grounds.

Orig Pub : Izv. Timiryazevsk, s.-kh. akad., 1957, No 6, 197-202

Abstract : A description is given of a new air-heating system of warming hot houses and hot beds, worked out in 1954 at the Vegetable Experiment Station of Moscow Agricultural Academy im. K.A. Timiryazev. The air in this system is warmed by the heat of solar radiation, heats the soil and then passes once again under the housing. Estimates on the costs of heating to warm the air and the cost of this equipment are given. In hot beds with air-heat warming, the lettuce yield increased (by 20 - 30%) and the

Card 1/2

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CIA-RDP86-00513R000514510001-4

~~GAVRILOV, N.I.; YEREMENKO, L.L.~~

Apparatus for measuring the surface area of leaves. Fiziol. rast. 6
no.4:508-512 Jl-Ag '59.
(MIRA 12:10)

I.K.A. Timiriazev Agricultural Academy, Moscow.
(Botanical apparatus) (Leaves)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, N. I., insh.

The B-6514 underground excavator. Stroi. i dor. mashinostr. 5
no. 4;8-12 Ap '60. (MIRA 13;9)
(Excavating machinery)

GAVRILOV, N.I., inzh.-geolog; PEREDEL'SKII, L.V., inzh.-gidrogeolog

Karst phenomena in the irrigated regions of the Sulak Lowland.
Gidr.i mel. 14 no.11:35-40 N '62. (MIRA 15:12)

1. Yuzhnyy gosudarstvennyy institut po proyektirovaniyu vodnogo
khozyaystva.

(Sulak Valley--Karst)
(Sulak Valley--Irrigation)

GAVRILOV, N.I., aspirant

Analyzing the work of controlled disk brakes with booster and mechanical drive on single-bucket universal medium-capacity excavators. Nauch. trudy Mosk. inst. radioelek. i gor. elektronmekh. no. 49 pt.2:40-49 '64 (MIRA 19:1)

Calculation of belt and disk brakes with booster and mechanical drive. Ibid. 50-53.

GAVRILOV, N. I.

GAVRILOV, N. I. -- "Ways and Means of Reducing the Rate of Infection among the Workers and Service Personnel of an Industrial Enterprise (Based on Work of the Medical-Sanitary Section, Podol. Machine Plant imeni M. I. Kalinin)." Acad Med Sci USSR. Moscow, 1955. (Dissertations for the Degree of Candidate in Medical Sciences).

SO: Knizhnaya Letopis', No 9, 1956

GAVRILOV, N. I.

USSR/Medicine - Preventive, in Industry

FD-1869

Card 1/1 Pub. 102-4/15

Author : *Gavrilov, N. I.

Title : Some questions on reduction of sick rate among workers and service personnel in industrial establishments

Periodical : Sov. zdrav., 2, 18-22, Mar-Apr, 1955

Abstract : Temporary incapacitation of workers of Podol'sk machine plant was reduced somewhat in the past 6-7 years. Considerable number of productive man-hours was saved by reducing incidence of ulcerous diseases, hypertension, acute gastro-intestinal infections, and gynecological and skin diseases. Incidence of influenza, angina, and catarrh of the upper respiratory tract has not been reduced, however. The present system of medical aid to workers in industrial establishments (hospital-outpatient-clinic-shop) seems to be expedient enough and need not be changed. All workers in those shops of the Podol'sk machine plant, where temperature fluctuations, noise, and dust cannot be controlled, have been under constant observation of the outpatient clinics. Efforts of medical personnel of the Podol'sk machine plant has been enhanced by activities of trade union organizations and of "sanitation actives".

Institution: (*Chief) Medico-Sanitary Section of the Podol'sk Machine Plant imeni M. I. Kalinin

Submitted. : January 18, 1955

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CIA-RDP86-00513R000514510001-4

GAVRILOV, N.I.(Podol'sk)

Shop nurse. Med.sestra, no.8:17-18 Ag '55 (MLRA 8:11)

(NURSING PROFESSION

in Russia, indust. nurse)

(INDUSTRIAL HYGIENE

in Russia, indust.nurse)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4"

GAVRILOV, N.I.

AID P - 3649

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 13/18

Author : Gavrilov, N. I.

Title : Some remarks in connection with Prof. A. M. Merkov's article.

Periodical : Gig. i. san., 10, 50-52, O 1955

Abstract : Analyzes A. M. Merkov's article, this journal, No. 3, 1955, (See AID P-2138), gives a favorable evaluation of the latter's views, and suggests some improvements for the methods of public health statistics.

Institution : Section of Medicine and Sanitation, Podol'sk Mechanical Plant im. Kalinin

Submitted : Ap 9, 1955

GAVRILOV, N.I.

Evaluation of temporary work incapacity. Sov.zdrav. 14 no.5:
18-21 S-O '55. (NLRA 8:12)

1. Machal'nik mediko-sanitarney chasti Podol'skogo mekhani-
cheskogo zavoda imeni M.I.Kalinina.
(WORK,
temporary incapacity determ. in Russia)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N. (Podol'sk, Moskovskoy obl.)

Medical consultation in the expert diagnosis of working capacity.
Vrach.delo no.12:1299 D '56. (MIRA 12:10)
(DISABILITY EVALUATION)

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CIA-RDP86-00513R000514510001-4"

GAVRILOV, N.I.

Organization of coordination and consistency in treating workers in factories. Sov.sdrav. 15 no.5:46-48 8-0 '56. (MIRA 10:1)

1. Nachal'nik mediko-sanitarnoy chasti Podol'skogo mekhanicheskogo zavoda imeni Kalinina.
(INDUSTRIAL HYGIENE
organiz. of home med. care of workers in Russia)

GAVRILOV, M.I.

Advanced training for industrial physicians in the field of work
hygiene and occupational diseases. Gig. i san., 22 no. 3:52-53
Ak '57. (MLRA 10:9)

1. Nachal'nik mediko-sanitarnoy chasti Podol'skogo mekhanicheskogo
zavoda imeni M.I.Kalinina
(INDUSTRIAL HYGIENE, educ.
in Russia)

GAVRILOV, N.I.

GAVRILOV, N.I.

The question of calculating morbidity. Gig. i san. 22 no.11:55-57
(MIRA 11:1)
N '57.

1. Nachal'nik mediko-sanitarnoy chasti Podol'skogo mekhanicheskogo
zavoda imeni Kalinina.
(VITAL STATISTICS
morbidity statist. technics in Russia (Eng))

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R000514510001-4

GAVRILOV, N.I., GIMPEL', V.V. (Podol'sk)

~~Planning a public health network and the personnel required.~~
Zdrav. Ros. Feder. 2 no.12:31-33 D '58 (MIRA 11:12)
(PUBLIC HEALTH)

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CIA-RDP86-00513R000514510001-4"

GAVRILOV, Nikolay Ivanovich, kand.med.nauk; BOGATYREV, I.D., red.;
BIL'CHIKOVA, Yu.S., tekhn.red.

[Problems in the organization of medical and hygienic care of
industrial workers] Voprosy organizatsii mediko-sanitarnogo
obsluzhivaniia promyshlennykh rabochikh. Moskva, Gos.ind-vo
med.lit-ry, 1959. 102 p. (MIRA 12:12)
(INDUSTRIAL HYGIENE) (INDUSTRIAL MEDICINE)